

## **ABSTRACT**

Provided is a method and system for determining a position of a mobile communication device in a mobile communication network, the method including the steps of: receiving a plurality of pieces of base station signal information, the base station signal information including base station identification information, the base stations transmitting the base station signal information to the mobile communication device; determining a base station corresponding to each of the plurality of pieces of base station signal information based on the base station identification information; generating vector information associated with the plurality of the base stations based on geographic information corresponding to the determined base station; and generating location information of the device according to the generated vector information, wherein the step of generating the vector information comprises the steps of: determining a predetermined vector proceeding order associated with the plurality of the base stations according to the base station signal information; and sequentially determining a vector with respect to the plurality of the base stations according to the determined vector proceeding order, with the base station in which the device is currently communicating with as a starting point.